Summer Internship (04/06/24 – 24/07/24)

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Overview

Automation Anywhere A2019 is a leading Robotic Process Automation (RPA) tool known for its comprehensive capabilities and user-friendly interface. It supports a wide range of operating systems and offers both cloud and on-premises deployment options. The platform is browser-based and includes enhanced security features such as authentication, encryption, and real-time analytics.

Key Capabilities

1. **Intuitive Interface**: Facilitates the creation of bots and automation workflows with multiple views for collaboration.
2. **Cross-Platform Support**: Compatible with Windows, Linux, and macOS.
3. **Advanced Variables and Scripting**: Supports JavaScript, Python, and VBScript.
4. **Recording Capabilities**: Works across various platforms like Windows, Citrix, Web, and SAP.
5. **Flexible Architecture**: Allows integration of new command packages. We can download packages from the bot-Store and import them in our workspace.

Core Components

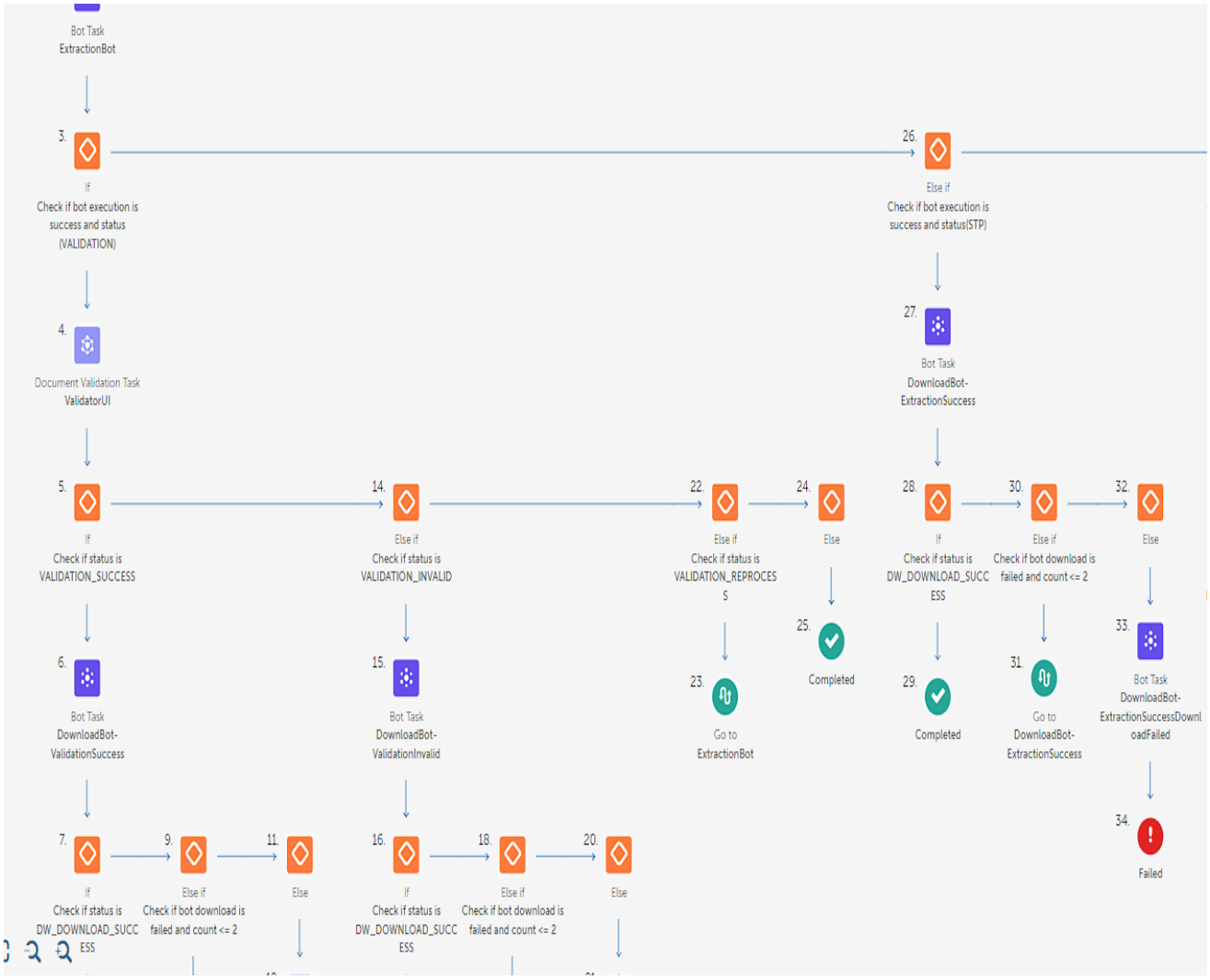
1. **Automation Anywhere Robotic Interface (AARI)**: Simplifies user-bot interactions, enabling process automations and feedback loops.
2. **Discovery Bot**: Identifies automation opportunities and creates bots based on ROI prioritization.
3. **IQ Bot**: Processes complex documents and emails using AI to automate document-centric tasks.
4. **Bot Insight**: Provides real-time analytics and insights through customizable dashboards.
5. **Bot Store**: An online marketplace for pre-built bots and digital workers, with a private option for internal bot sharing.

My Progress and pathway in the course (Document Automation Developer)

- **Automating Data Extraction from documents –** Here I learnt to create instances and new bots.

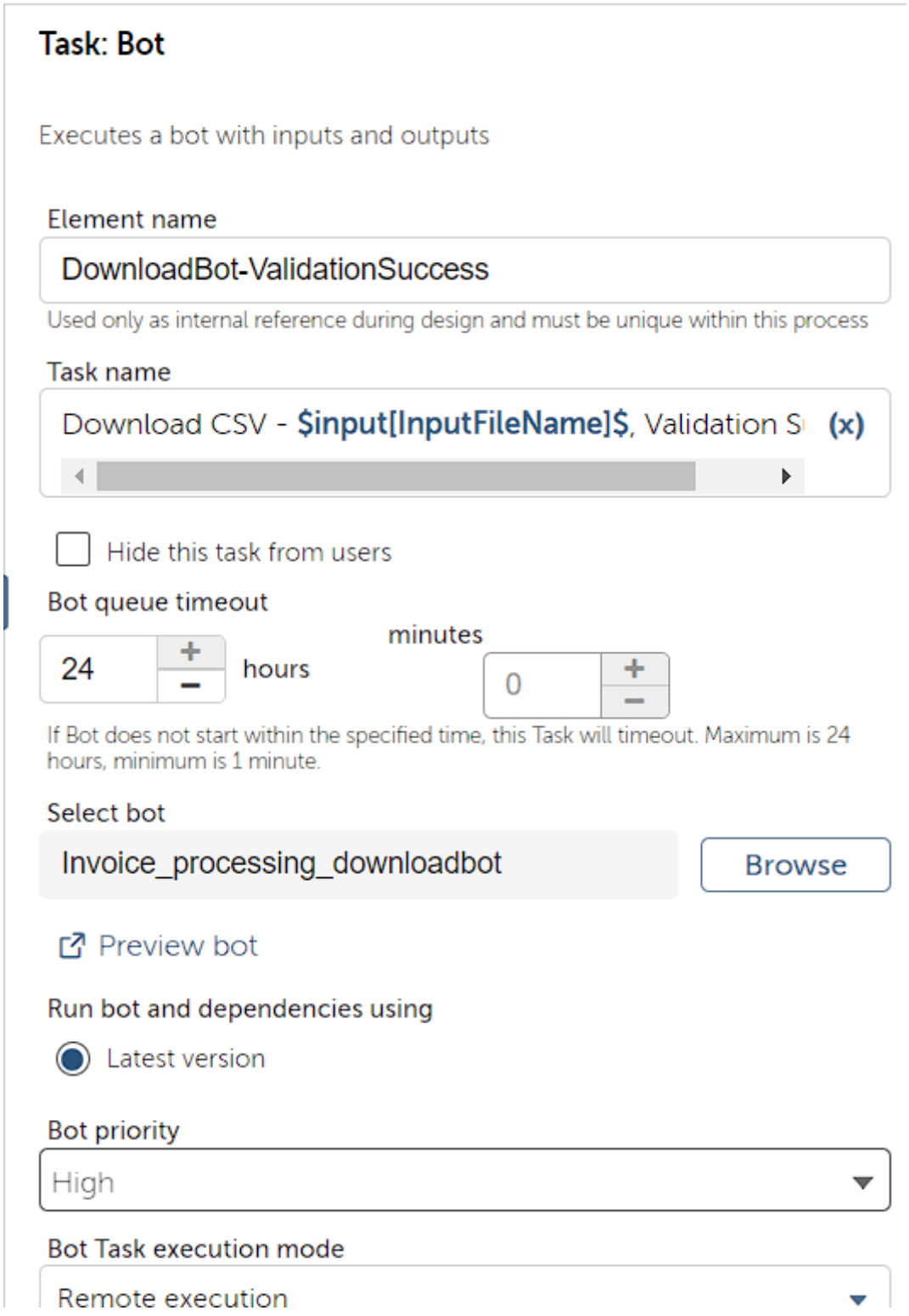
- After creating an instance I took sample invoice data in PDF form from the web and tested on my learning instance.

- <u>Visualisation of the bot can also be done side by side.</u>



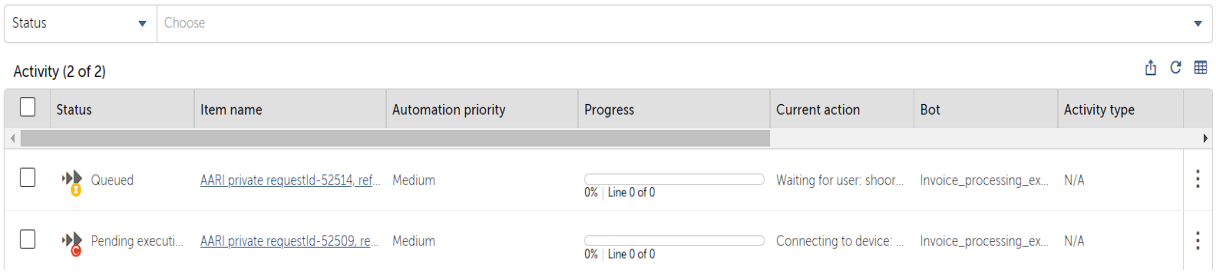
- In the above bot visualisation diagram , we can change any bot file name, add more tasks after the Document Validation Task as mentioned and many other functions.

- Any changes in the bot can be made while bot visualisation , for example we can change the output file / extracted file type from JSON format to .csv file.



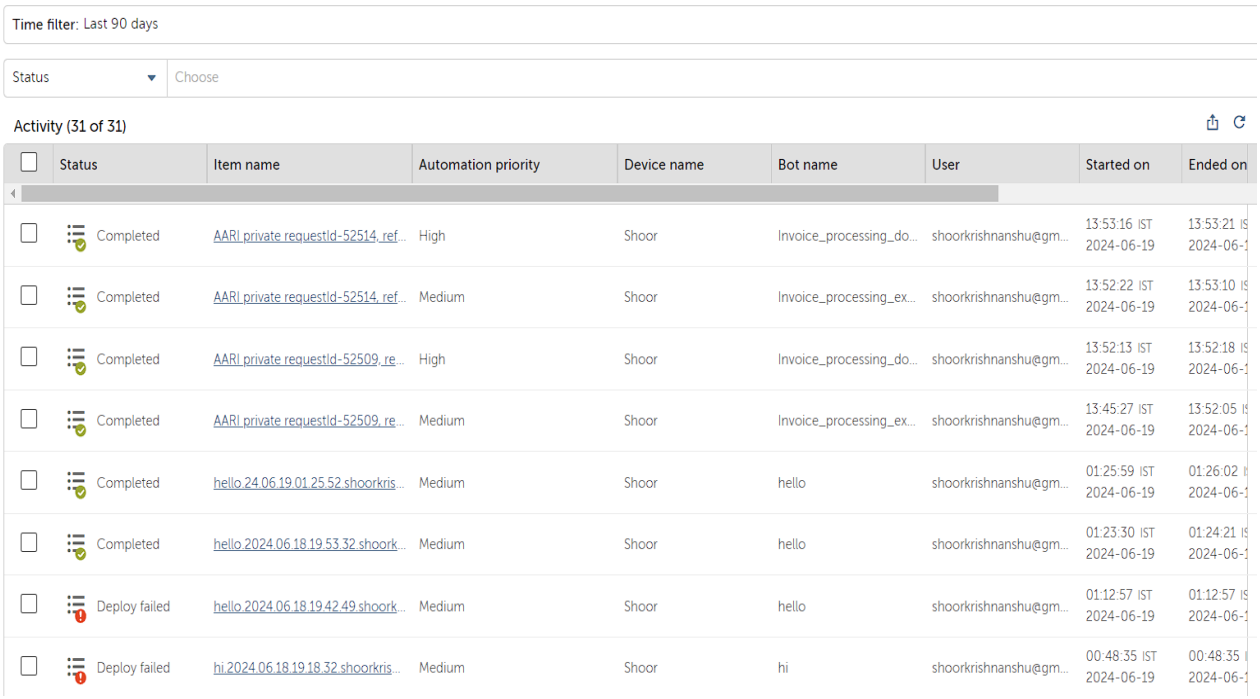
- While our document is being processed we can not run any other bot or instance as our device is busy and we can run only one bot at a time. We can check the status of out bot in the queue , under the **Manage-> in progress** activities.

In progress activity

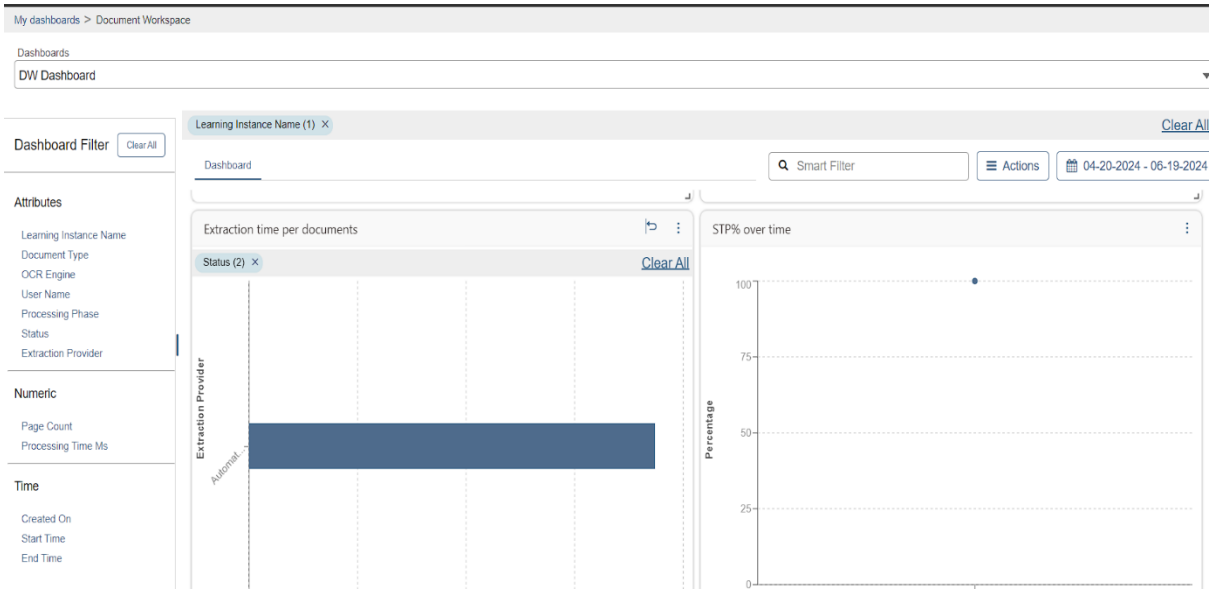


- After the bot has run successfully , we can check the status of out instance ; if there is no error then the Validation field is empty and the files are uploaded in our output folder mentioned . We can check the successful tasks in **the Activity->Historical view.**

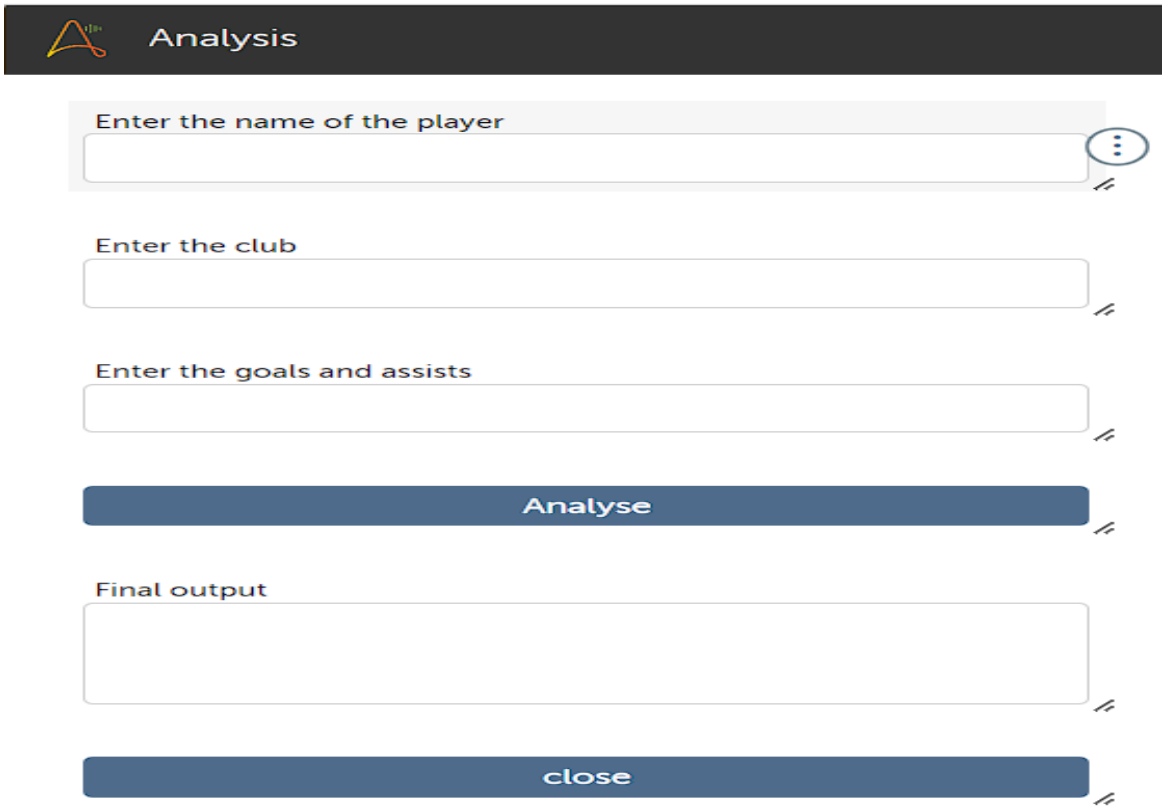
Historical activity



- Finally we can use the **Bot Insight** feature for tracking and analysing metrics like process completion rates , errors and resource usage. There are many fields like performance monitoring , business insights , Custom dashboards and reports and so on.



- After this completion , I made a few forms and integrated them with bots.



- In the end I went through many other inbuilt packages like Generative AI, standard forms and more.
- I completed the course and then attempted the Developer automation assessment.

TEST RESULTS

YOU GOT 14 OUT OF 15 CORRECT: 93%
YOU PASSED!

TIME LIMIT	TOTAL TIME
30:00	13:59

Congratulations! You have passed this assessment.

Note: You will receive an email with your badge. Please check your registered email for instructions to access your badge.

0 ATTEMPTS REMAINING

75% REQUIRED FOR PASSING GRADE

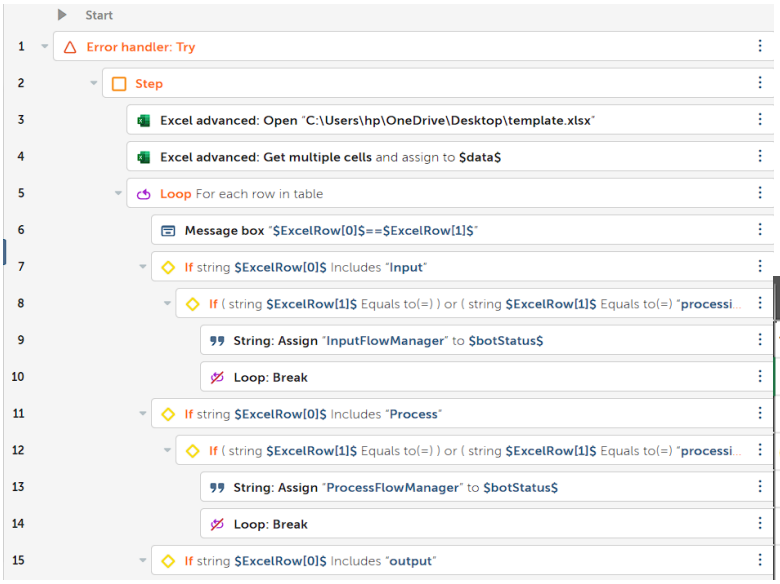
Continue to Next Section

FINAL RPA PROJECT- "RPA LEARNING TRAIL"

After completing a few courses on the RPA bot automation , I completed the RPA challenge.

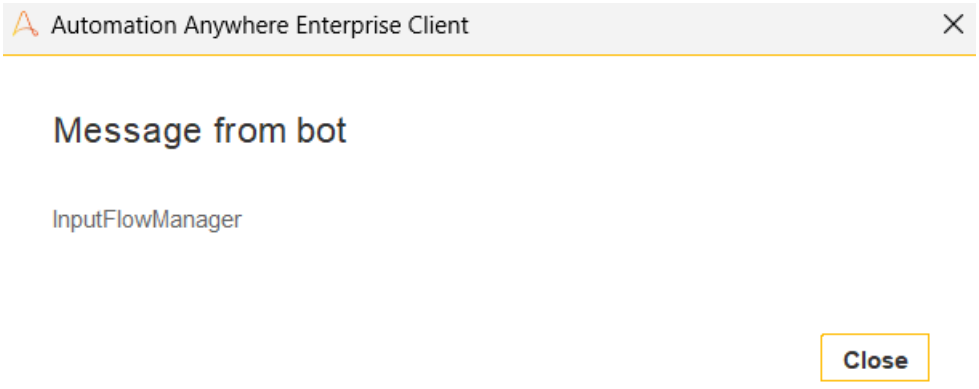
Initially a "Resume" bot checks the status of 3 sub bots named Input flow Manager , Process flow Manager and Output flow Manger . The result I attain from the resume bot , I run that bot in my final "Main Task" bot.

Resume bot



	A	B	C
1	task	status	
2	Input Flow Manager		
3	Process Flow Manager		
4	Output Flow Manager		
5			
6			
7			

Now the resume bot give me output as "Input Flow Manager so I call the input flow manager bot.



The **input flow manager** task bot looks for the challenge.xlsx file , it then creates a copy of the file and adds a status column there with default value as **"NEW"** . The below is the copy of the file. Here the status of the Input flow manager in my resume template goes to completed.

First Name	Last Name	Company Nam	Role in Company	Address	Email	Phone Number	status
John	Smith	IT Solutions	Analyst	98 North Road	jsmith@itsolutions.co.uk	40716543298	NEW
Jane	Dorsey	MediCare	Medical Engineer	11 Crown Street	jdorsey@mc.com	40791345621	NEW
Albert	Kipling	Waterfront	Accountant	22 Guild Street	kipling@waterfront.com	40735416854	NEW
Michael	Robertson	MediCare	IT Specialist	17 Farburn Terrace	mrobertson@mc.com	40733652145	NEW
Doug	Derrick	Timepath Inc.	Analyst	99 Shire Oak Road	dderrick@timepath.co.uk	40799885412	NEW
Jessie	Marlowe	Aperture Inc.	Scientist	27 Cheshire Street	jmarlowe@aperture.us	40733154268	NEW
Stan	Hamm	Sugarwell	Advisor	10 Dam Road	shamm@sugarwell.org	40712462257	NEW
Michelle	Norton	Aperture Inc.	Scientist	13 White Rabbit Street	mnorton@aperture.us	40731254562	NEW
Stacy	Shelby	TechDev	HR Manager	19 Pineapple Boulevard	sshelby@techdev.com	40741785214	NEW
Lara	Palmer	Timepath Inc.	Programmer	87 Orange Street	lpalmer@timepath.co.uk	40731653845	NEW

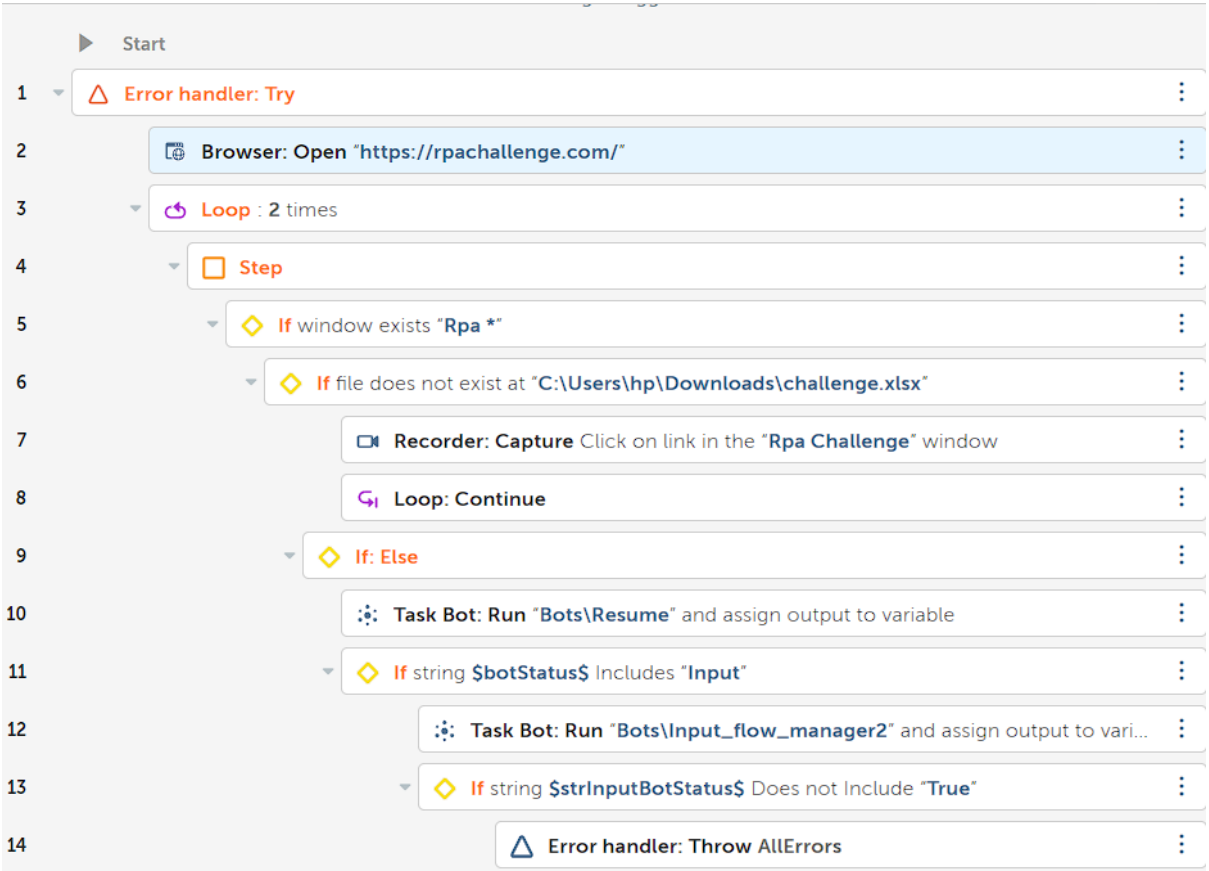
After this the process flow manager is executed and it goes through each row one by one and completed the challenge successfully . This uses **"Xpath"** to capture various objects on the screen and performs the functions . As each row is processed I change the status from **"NEW"** to **"processing"** and then finally **"completed"** .

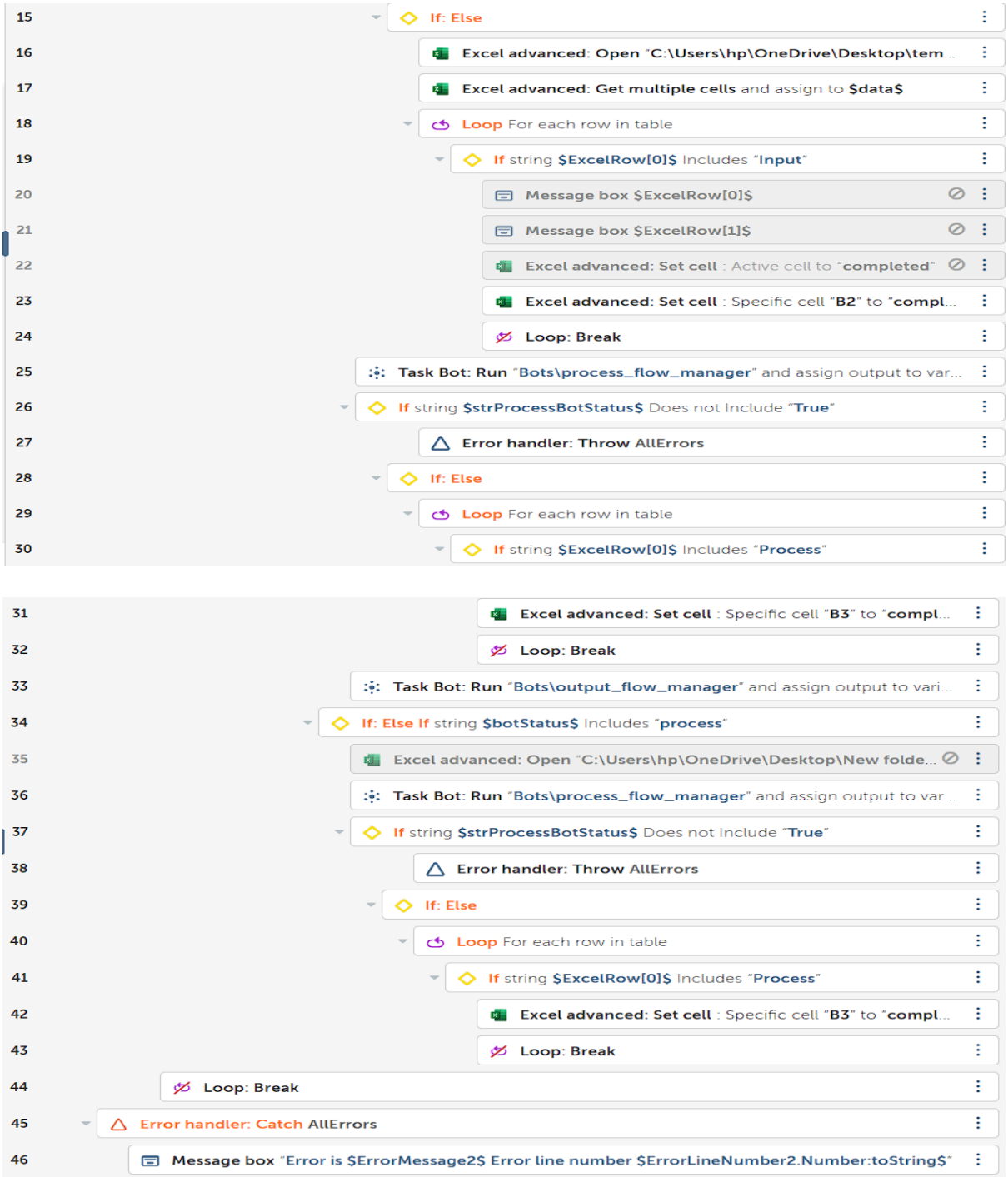
First Name	Last Name	Company Name	Role in Company	Address	Email	Phone Number	status
John	Smith	IT Solutions	Analyst	98 North Road	jsmith@itsolutions.co.uk	40716543298	completed
Jane	Dorsey	MediCare	Medical Engineer	11 Crown Street	jdorsey@mc.com	40791345621	completed
Albert	Kipling	Waterfront	Accountant	22 Guild Street	kipling@waterfront.com	40735416854	completed
Michael	Robertson	MediCare	IT Specialist	17 Farburn Terrace	mrobertson@mc.com	40733652145	completed
Doug	Derrick	Timepath Inc.	Analyst	99 Shire Oak Road	dderrick@timepath.co.uk	40799885412	completed
Jessie	Marlowe	Aperture Inc.	Scientist	27 Cheshire Street	jmarlowe@aperture.us	40733154268	completed
Stan	Hamm	Sugarwell	Advisor	10 Dam Road	shamm@sugarwell.org	40712462257	completed
Michelle	Norton	Aperture Inc.	Scientist	13 White Rabbit Street	mnorton@aperture.us	40731254562	completed
Stacy	Shelby	TechDev	HR Manager	19 Pineapple Boulevard	sshelby@techdev.com	40741785214	completed
Lara	Palmer	Timepath Inc.	Programmer	87 Orange Street	lpalmer@timepath.co.uk	40731653845	completed

After this the status of my **process flow manager** and **the output flow manager** goes to completed and bot is closed along with all the excel files.

task	status
Input Flow Manager	completed
Process Flow Manager	completed
Output Flow Manager	completed

Snippets of my final Task Bot – This combines all the 4 child bots and then this parent bot runs accordingly.





FINAL CONFIRMATION CERTIFICATE.